

ISO/IEC 9646-7:1995-09 (E)

Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 7: Implementation conformance statements

Contents		Page
Foreword		V
Introduction		VI
1	Scope.....	1
2	Normative references.....	1
3	Definitions	2
4	Abbreviations.....	2
4.1	ISO/IEC 9646 abbreviations.....	2
4.2	ISO/IEC 10165-6 abbreviations.....	2
5	Compliance	2
6	Overview.....	3
6.1	Introduction to System Conformance Statements (SCSs)	3
6.2	Introduction to Implementation Conformance Statements (ICSs).....	4
6.3	ICS profomas.....	4
6.3.1	General	4
6.3.2	PICS profomas.....	4
6.3.3	Information object ICS profomas.....	5
6.3.4	Profile specific ICS profomas	5
6.4	Profile Requirements Lists	5
6.5	Relationships between OSI specifications and their related ICS profomas and ICSs.....	6
6.5.1	The general picture	6
6.5.2	Base specifications	6
6.5.3	Profile specifications	6
6.5.4	Profile ICS profomas	6
6.5.5	Profile ICS	6
6.5.6	Profile specific information.....	6
6.6	SCS profomas.....	6
6.7	Use and Users of ICSs and SCSs	14
6.7.1	Users of profomas.....	14
6.7.2	Uses of ICSs and SCSs.....	14
7	Structure of an SCS proforma.....	15
8	Layout of an ICS proforma specification and profile RL.....	17
8.1	Introduction.....	17
8.2	Requirements for ICS proforma specifications and specifications of ICS templates.....	17
8.2.1	Publication options for ICS proforma specifications	17
8.2.2	The Introduction clause	17
8.2.3	The Scope clause	17
8.2.4	The Normative References clause.....	17
8.2.5	The Definitions clause	18
8.2.6	The conformance clause	18
8.2.7	Copyright.....	18
8.3	The ICS profoma.....	19
8.3.1	Introduction.....	19
8.3.2	First section - Identification of the ICS proforma corrigenda	19

8.3.3	Second section - Instructions	19
8.3.4	Third section - Identification of the Implementation	19
8.3.5	Fourth section - Identification of the protocol, information objects or profile	19
8.3.6	Fifth section - Identification of corrigenda to the protocol, information objects or profile	20
8.3.7	Sixth section - ICS proforma tables	20
8.4	Re-issuing ICS profomas following technical corrigenda.....	21
8.5	PICS profomas	21
8.5.1	Introduction	21
8.5.2	Roles	21
8.5.3	Major capabilities	22
8.5.4	PDU's	22
8.5.5	PDU Parameters.....	22
8.5.6	Timers	23
8.5.7	Negotiation capabilities	23
8.5.8	Protocol error handling.....	23
8.5.9	Multi-specification dependencies	23
8.5.10	Other conditions	23
8.6	Information object ICS proformas.....	23
8.7	Profile RL and profile specific ICS proforma	24
8.7.1	Introduction	24
8.7.2	Use of base specification ICS proformas in a profile	24
8.7.3	Profile RL	24
8.7.4	Profile specific ICS proformas	24
8.7.5	Asymmetry in profile static conformance requirements	25
9	Complete specification of ICS proforma and RL notation	25
9.1	Introduction	25
9.2	Status column values	25
9.2.1	General notations	25
9.2.2	Predicates.....	26
9.2.3	Logical negation symbol.....	27
9.2.4	Flagging of references used in predicates	27
9.2.5	Notation for conditional requirements	27
9.3	Support column answers	29
9.3.1	General notations	29
9.3.2	Conditional support answers	30
9.3.3	Tick boxes for support answers	30
9.3.4	Omission of Irrelevant Tick Boxes.....	31
9.4	Column Headings	31
9.5	Referencing items and their support answers	31
9.6	Specific requirements for profile RL notation	32
10	Relation of the ICS and IXIT	33
	Annexes A Guidance on the meaning of ICS status values and support answers	34
A.1	Meaning of status values	34
A.2	Meaning of support answers	35
A.3	Interpretation of the mandatory status value	35
A.4	Interpretation of the optional status value	36
A.5	Interpretation of the conditional status value	38
A.6	Interpretation of the not-applicable status value	39
A.7	Interpretation of the out-of-scope status value	40
A.8	Interpretation of the excluded status value.....	40
B	Use of profile RL and profile specific ICS.....	41
B.1	Introduction	41
B.2	Exclusion of a role, major capability, functional unit or parameter.....	41
B.3	Presence of Parameters	41
B.4	Behaviour in case of no-support answer	41
C	Examples of PICS proforma tables and related profile Requirements List tables	42
C.1	Major Capabilities.....	42

C.2 PDU support	42
C.3 Parameter support	43
C.4 Parameter value support.....	43
C.5 Requirements List.....	44
D Guidance for interpretation of additional status notations	46
D.1 Double status notation	46
D.2 Additional status letters	48
E Guidance on IXIT profomas	49
F Information objects	50
F.1 Types of information object	50
F.2 Implementation conformance statements for information objects	50
G Guidance on multi-specification dependencies	51
G.1 Background	51
G.2 Formats.....	51
H Guidance on status and support for parameters on received PDUs	53
H.1 Background	53
H.2 Status in base specification PICS profomas	53
H.3 Status in profile RLs	53
I Guidance on the ICS templates and ICS profomas used in OSI Management	55
I.1 Introduction.....	55
I.2 Possible stages towards the development of an ICS or MCS	55
I.3 Applicability of the six stages to MCS, MOCS, MIDS and MRCS development.....	57